



SPANNERHANDS Filament

BIOFLEX (FLEXIBLE PLA)

BASF Ecoflex® C1200 F Blend Biodegradable Polyester

Categories: [Polymer](#); [Renewable/Recycled Polymer](#); [Thermoplastic](#); [Polyester, TP](#)

Material Notes: Description: Ecovio® F Blend C2332 is our biodegradable, statistical, aliphatic-aromatic copolyester based on the monomers 1,4-butanediol, adipic acid and terephthalic acid in the polymer chain. Ecoflex® F Blend C1200 will biodegrade to the basic monomers 1,4-butanediol, adipic acid and terephthalic acid and eventually to carbon dioxide, water and biomass when metabolized in the soil or compost under standard conditions.

Applications: Ecoflex® F Blend C1200 has been developed for the conversion to flexible films using a blown film or cast film process. Typical applications are packaging films, agricultural films and compost bags. In view of numerous factors influencing functionality and shelf life of Ecoflex® films and finished articles made thereof these parameters have to be tested by the converters before utilization.

Information provided by BASF

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.25 - 1.27 g/cc	0.0452 - 0.0459 lb/in ³	ISO 1183
Water Vapor Transmission	140 g/m ² /day	9.02 g/100 in ² /day	DIN 53122
Oxygen Transmission Rate	1600 cc/m ² /day	103 cc/100 in ² /day	DIN 53380
Melt Flow	2.7 - 4.9 g/10 min	2.7 - 4.9 g/10 min	ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	32	32	ISO 868
Tensile Strength	35.0 - 44.0 MPa	5080 - 6380 psi	ISO 527
Tensile Strength, Ultimate	36.0 - 45.0 MPa	5220 - 6530 psi	ISO 527
Elongation at Break	560 - 710 %	560 - 710 %	ISO 527
Thermal Properties	Metric	English	Comments
Melting Point	110 - 120 °C	230 - 248 °F	DSC
Vicat Softening Point	91.0 °C	196 °F	A/50; ISO 306
Optical Properties	Metric	English	Comments
Transmission, Visible	82 %	82 %	ASTM D1003

Descriptive Properties

Commercial Status Europe

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.